明治十九年五月刊行

明治十九年四月廿三日出版届濟
定價金拾三錢

觀象臺長 海軍大尉 磯野健閲
觀測士 海軍中尉 山崎喜勝
觀測助手 海軍属 中川將行
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同 海軍二等工長 岩間侃次郎
同 海軍三等工長 小澤兼藏
同 海軍属 日比翁輔
同 海軍属 白井正信

(Signed) Director.
K. Isono.

Observator.
Y. Yamazaki.

Assistant.
M. Nakagawa.
" N. Itō.
" K. Iwama.
" K. Ozawa.
" Ō. Hibi.
" M. Shirai.

REMARKS.

Day.

1 C; Light shower 8 a.m.—past 10 a.m., Clearing from 9 p.m.
2 Fine & pleasant; L. on the south, evening.
3 Dull after morning.
4 B.C. in day; Fine & pleasant in night; S. w_2 from noon.
5 R. at intervals from past 5 a m., S. w_2 to 10 p.m.
6 B.C. in day; C. in night; N. w_2 8 a.m.— 3 p.m.
7 Fine & pleasant in day; Dull in night.
8 C; R. about 6.30 a.m.— past 8 p.m.
9 Fine & pleasant; N. W. w_2 7 a.m.— 6 p.m.
10 Fine, but dull; *l. h.* from about 7 p.m., S. or S.W. w_3 from noon.
11 B. in day; C. in night; S. or S.W. w_3 to 7 p.m., Barometer especially falls in the daytime.
12 R. from about 10 a.m.
13 R. to past 7 a.m., C.; E. about 5. 45 a.m.
14 C. in day; Fine & pleasant in night.
15 Fine & pleasant in a.m., Dull in p.m., *l. h.* about 9 p.m.
16 Cloudy, with rain at intervals.
17 R. in a.m., B. in p.m., *r. b.* about 5 p.m., R. in night.
18 Cloudy, with rain at intervals.
19 C.
20 Dull in day; R. in night; T. on the south, past 8 p.m.
21 C.; L. on the east, in the night.
22 Dull in a.m., B. in p.m.
23. B.
24 B.C., S. w_2 in p.m.
25 Dull; R. from about 10 p.m., S. w_3 in all day.
26 R. untill day break; Dull; S. or N. E. w_2 to 10 a.m.
27 C.
28 R.
29 C.
30 Cloudy, with rain at intervals.

記事

一日 陰午前八時ヨリ同十時過マテ疎雨午後九時過ヨリ漸々晴
二日 終日快晴黄昏南方ニ電光アリ
三日 黎明後續テ薄陰
四日 晝間半晴夜間快晴正午ヨリ南風稍强
五日 午前五時過ヨリ時々微雨午後十時マテ南風稍强
六日 晝間半晴夜間陰午前八時ヨリ午後三時マテ北風稍强
七日 晝間快晴夜間薄陰
八日 陰午前六時三十分頃ヨリ午後八時過マテ微雨
九日 快晴午前七時ヨリ午後六時マテ北西風稍强
十日 薄晴午後七時頃ヨリ月暈ヲ帶ヒ正午ヨリ南或ハ南西强風
十一日 晝間晴夜間陰午後七時マテ南乃至南西强風晝間風雨鹹殊ニ降下ス
十二日 午前十時頃ヨリ降雨
十三日 午前五時四十五分頃地震シ同七時過宿雨歇ミ爾後陰天
十四日 晝間陰夜間快晴
十五日 午前快晴午後薄陰同九時頃月薄暈ヲ帶フ
十六日 陰天時々降雨
十七日 午前降雨午後晴同五時頃斷虹現ル夜來再ヒ微雨
十八日 陰天時々降雨
十九日 終日陰天
二十日 晝間薄晴夜間降雨午後八時過南方ニ屢々雷鳴ヲ聞ク
廿一日 終日陰天夜ニ入リ東方ニ屢々電光ヲ見ル
廿二日 午前薄晴午後晴
廿三日 終日晴天
廿四日 半晴午後南風稍强
廿五日 薄陰午後十時頃ヨリ降雨終日南風强シ
廿六日 拂曉マテ微雨爾後薄陰午前十時マテ南乃至北東風稍强
廿七日 終日陰天
廿八日 雨天
廿九日 終日陰天
三十日 陰天時々降雨

地平磁針力
HORIZONTAL INTENSITY.

10th Beginning time 2h 10m P. M. Ending 3 25
十日午後二時十分ヨリ同三時二十五分ニ至ル

偏針角 Deflections. — 視閲度 Circle — Readings.

磁氣 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	59 2 40	2 0	2 20				
	W.					2	52 19 0	18 20	18 40
	E.	3	59 2 50	2 10	2 30				
	W.					4	52 19 0	18 10	18 35
	E.	5	59 2 40	2 0	2 20				
平均 Means			59° 2′ 23″.3				………… 52° 18′ 37″.5		
西 West.	W.					6	52 15 0	14 20	14 40
	E.	7	58 56 0	55 20	55 40				
	W.					8	52 15 0	14 20	14 40
	E.	9	58 56 10	55 30	55 50				
	W.					10	52 15 10	14 30	14 50
平均 Means.			58° 55′ 45″.0				………… 52° 14′ 43″.3		

平均温度 Mean Temperature $t = 67°.4$ fah.
偏針角 Angle of Deflection $u = 3° 21' 11''.9$

搖振時 Oscillations.

振數 No. of Osc.	測時 Time h	m	s	温度 Temp. °	尺度兩端之視閲數 Extreme Scale-readings		百振之時 Time of 100 Oscillations m	s
0	3	13	9.2	65.8	3.2	55.1		
10	3	13	53.2					
20	3	14	37.5					
31	3	15	26.5					
41	3	16	10.8					
51	3	16	55.0					
100	3	20	32.0				7	22.8
110	3	21	16.2					23.0
120	3	22	0.8					22.3
131	3	22	49.0					22.5
141	3	23	33.5					22.7
151	3	24	17.5	65.8	14.1	44.1		22.5
平均 Means.				65.8	………………………		7	22.63

物捩差 Mean effect of 90° of Torsion $v = 1.96$
時儀日差 Daily rate $s = 3^s.07$ gaining.

成果 Resulting absolute value X = 6.3177

22nd Beginning time 2h 0m P. M. Ending 4 15
廿二日午後二時ヨリ同四時十五分ニ至ル

偏針角 Deflections. — 視閲度 Circle — Readings.

磁氣 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	269 14 0	13 40	13 50				
	W.					2	262 30 20	29 20	29 50
	E.	3	269 14 0	13 20	13 40				
	W.					4	262 30 0	29 20	29 40
	E.	5	269 14 20	13 50	14 5				
平均 Means.			269° 13′ 51″.7				………… 262° 29′ 45″.0		
西 West.	W.					6	262 26 20	25 20	25 50
	E.	7	269 7 50	7 20	7 35				
	W.					8	262 27 20	26 30	26 55
	E.	9	269 7 50	7 10	7 30				
	W.					10	262 27 30	26 30	27 0
平均 Means.			269° 7′ 32″.5				………… 262° 26′ 35″.0		

平均温度 Mean Temperature $t = 65.8$ fah.
偏針角 Angle of Deflection $u = 3° 21' 16.''0$

搖振時 Oscillations.

振數 No. of Osc.	測時 Time h	m	s	温度 Temp. °	尺度兩端之視閲數 Extreme Scale-readings		百振之時 Time of 100 Oscillations m	s
0	4	2	2.0	65.7	2.0	58.0		
10	4	2	46.3					
20	4	3	30.8					
31	4	4	19.2					
41	4	5	3.4					
51	4	5	48.0					
100	4	9	24.9				7	22.9
110	4	10	9.1					22.8
120	4	10	53.3					22.5
131	4	11	41.7					22.5
141	4	12	26.3					22.9
151	4	13	10.4	65.0	18.0	41.0		22.4
平均 Means.				65.4	………………………		7	22.67

物捩差 Mean effect of 90° of Torsion $v = 1.94$
時儀日差 Daily rate $s = 0^s.00$

成果 Resulting absolute value X = 6.3237

磁氣觀測之月報

東京海軍觀象臺

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

磁氣偏差 Magnetic Declination.

Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′
1	4 5.9	5	4 7.5	9	4 8.0	13	4 9.1	17	4 10.1	21	4 7.9	25	4 4.7	29	4 5.9
2	4 7.6	6	4 7.4	10	4 6.6	14	4 9.2	18	4 10.8	22	4 9.8	26	4 4.8	30	4 1.0
3	4 5.3	7	4 6.2	11	4 8.8	15	4 9.6	19	4 9.7	23	4 5.6	27	4 5.9		
4	4 6.1	8	4 5.6	12	4 7.6	16	4 10.8	20	4 9.6	24	4 2.6	28	4 4.5		

平均 Mean = 4° 7′.14

磁氣傾差 Magnetic Inclination.

10th Beginning / Ending time 5^h 10^m / 5 50 P. M.　十日午後五時十分ヨリ同時五十分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
50 17	50 20	50 5	50 3	49 29	49 29	49 19	49 17	49 4	49 5	49 13	49 16	50 7	50 6	50 2	50 3
50 18	50 19	50 8	50 8	49 12	49 11	49 15	40 11	49 16	49 17	49 14	49 15	50 5	50 4	49 55	49 56
50 17.5	50 19.5	50 6.5	50 5.5	49 20.5	49 20.0	49 17.0	49 14.0	49 10.0	49 11.0	49 13.5	49 15.5	50 6.0	50 5.0	49 58.5	49 59.5
50 18.5		50 6.0		49 20.3		49 15.5		49 10.5		49 14.5		50 5.5		49 59.0	
50 12.3				49 17.9				49 12.5				50 2.3			
49 45.1								49 37.4							

成果 Resulting Dip = 49° 41′.2

22nd Beginning / Ending time 5^h 10^m / 6 30 P. M.　廿二日午後五時十分ヨリ同六時三十分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
50 2	50 1	49 52	49 49	49 31	49 31	49 30	49 29	49 28	49 29	49 27	49 29	49 58	49 59	49 32	49 34
50 2	50 0	49 51	49 48	49 32	49 32	49 17	49 14	49 5	49 6	49 15	49 25	50 0	49 59	49 29	49 31
50 2.0	50 0.5	49 51.5	49 48.5	49 31.5	49 31.5	49 23.5	49 21.5	49 16.5	49 17.5	49 21.0	49 27.0	49 59.0	48 59.0	49 30.5	49 32.5
50 1.2		49 50.0		49 31.5		49 22.5		49 17.0		49 24.0		49 59.0		49 31.5	
49 55.6				49 27.0				49 20.5				49 45.3			
49 41.3								49 32.9							

成果 Resulting Dip = 49° 37′.1

天候
WEATHER.

日次 Date	雲之種類 Kind of Cloud. 卷雲 Cirrus.	積雲 Cumulus	層雲 Stratus.	卷積雲 Cirro-Cumulus.	卷層雲 Cirro-Stratus	積層雲 Cumulo-Stratus.	卷積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow.	靄霧 Fog	全晴 Clear.	陰部 Obscured part.	雨雪水量 Amount of Rain & Snow.
													in
1	...	...	...	6	...	...	...	1	...	...	1	8.3	...
2	...	...	...	7	...	...	...	...	...	...	1	1.8	...
3	...	...	...	7	...	...	...	...	...	...	1	7.9	...
4	...	...	...	8	...	...	...	...	...	...	...	5.9	...
5	...	...	...	3	...	...	...	5	...	...	...	9.3	...
6	...	2	...	6	...	...	...	...	...	...	...	7.6	0.17
7	1	2	1	2	1	1	...	...	...	...	...	5.3	...
8	...	4	...	...	...	...	...	4	...	...	...	10.0	...
9	...	...	...	3	3	...	...	...	...	...	2	1.8	0.06
10	1	...	...	7	...	...	...	...	...	...	...	7.4	...
11	...	...	...	8	...	...	...	...	...	...	...	6.1	...
12	...	...	...	2	...	...	1	5	...	...	...	10.0	...
13	...	...	...	6	...	...	...	2	...	...	...	10.0	0.39
14	2	...	...	3	...	3	...	...	...	...	...	8 0	...
15	1	...	...	5	1	...	...	1	...	...	...	5.5	...
16	...	1	...	4	...	...	...	3	...	...	...	9.9	0.06
17	...	...	...	4	...	...	...	4	...	...	...	8.1	1.37
18	...	2	...	2	...	...	...	4	...	...	...	10.0	0.03
19	...	2	...	4	...	2	...	...	...	...	...	9.4	0.22
20	...	1	...	4	...	...	...	3	...	...	...	8.1	...
21	...	3	...	5	...	...	...	...	...	...	...	9.8	0.90
22	...	...	...	8	...	...	...	...	...	...	...	5.8	...
23	[illegible]	...	...	6	...	...	...	...	...	...	...	2.4	...
24	1	...	...	4	3	...	...	...	...	...	...	7.5	...
25	...	...	...	7	...	...	...	1	...	...	...	9.5	...
26	...	2	...	5	...	...	...	1	...	...	...	9.3	0.25
27	...	3	...	5	...	...	...	...	...	...	...	9.3	...
28	...	...	...	...	...	...	...	8	...	...	...	10.0	0.42
29	...	3	...	5	...	...	...	...	...	...	...	10.0	0.48
30	...	3	...	1	...	...	...	4	...	...	...	10.0	...
									...	...			
合計 Sums.	8	28	1	137	8	6	1	46	...	...	5	...	4.35
平均 Means.	...	...	...	...	...	...	...	...	...	...	...	7.8	...

風
WIND.

日次 Date.	平穩時數 Hours of Calm.	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	東北 N. E. 時數 Number of Hours.	東北 N. E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	東南 S. E. 時數 Number of Hours.	東南 S. E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	西南 S. W. 時數 Number of Hours.	西南 S. W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	西北 N. W. 時數 Number of Hours.	西北 N. W. 速力 Number of Miles.	計合 Total. 時數 Number of Hours.	計合 Total. 速力 Number of Miles.	最强 Strongest. 方位 Directions.	最强 Strongest. 速力 Miles.
1	...	8	46.4	9	59.3	...	...	...	...	...	...	4	6.2	...	...	3	12.9	24	124.8	N.E.	10.4
2	...	10	67.0	4	28.7	1	13.5	9	53.3	...	...	...	...	...	...	...	...	24	162.5	N.	17.6
3	2	...	...	...	...	...	...	13	21.6	9	77.8	...	...	...	...	...	...	24	99.4	S.	13.7
4	1	...	...	...	...	...	...	...	...	18	204.5	5	120.9	...	...	...	...	24	325.4	S.W.	27.2
5	...	...	...	...	...	...	...	...	...	17	337.5	5	114.4	...	...	2	9.0	24	460.9	S.W.	26.0
6	...	15	188.2	...	...	2	11.9	7	48.7	...	...	...	...	...	...	...	...	24	248.8	N.	27.9
7	...	1	7.1	6	42.5	4	19.4	3	28.8	7	61.2	3	38.6	...	...	...	...	24	197.6	S.W.	14.5
8	...	...	...	...	...	...	...	...	...	17	52.8	2	5.9	2	5.1	3	24.0	24	87.8	S.	10.6
9	1	10	99.4	...	...	...	...	...	...	...	...	...	...	...	...	13	148.2	24	247.6	N.W.	27.0
10	4	7	16.8	...	...	...	...	...	...	9	187.8	4	119.1	...	...	...	...	24	323.7	S.W.	34.4
11	...	...	...	4	64.5	5	59.9	...	...	9	186.3	6	156.5	...	...	...	...	24	467.2	S.W.	32.3
12	...	12	94.1	12	62.2	...	...	...	...	...	...	...	...	...	...	...	...	24	156.3	N.	10.2
13	...	6	33.9	18	112.1	...	...	...	...	...	...	...	...	...	...	...	...	24	146.0	N.E.	10.7
14	...	9	62.6	15	62.2	...	...	...	...	...	...	...	...	...	...	...	...	24	124.8	N.E.	9.7
15	...	9	40.2	2	15.8	10	59.7	3	18.7	...	...	...	...	...	...	...	...	24	134.4	E.	10.2
16	...	12	100.4	8	57.8	4	26.8	...	...	...	...	...	...	...	...	...	...	24	185.0	N.	11.1
17	...	8	131.2	11	74.6	1	3.1	...	...	...	...	...	...	...	...	4	66.4	24	275.3	N.W.	20.2
18	1	...	...	...	...	23	92.2	...	...	...	...	...	...	...	...	...	...	24	92.2	E.	10.0
19	1	4	26.7	10	49.7	2	12.0	7	22.3	...	...	...	...	...	...	...	...	24	110.7	N.E.	9.7
20	...	...	...	9	48.8	9	37.8	6	45.4	...	...	...	...	...	...	...	...	24	132.0	N.E.	10.4
21	...	10	15.2	14	83.4	...	...	...	...	...	...	...	...	...	...	...	...	24	98.6	N.E.	8.0
22	1	7	45.3	8	112.1	8	62.3	...	...	...	...	...	...	...	...	...	...	24	219.7	N.E.	19.0
23	...	...	...	...	...	9	16.3	11	68.4	4	42.1	...	...	...	...	...	...	24	126.8	S.	12.3
24	1	...	...	...	...	...	...	10	15.2	10	229.2	3	77.3	...	...	...	...	24	321.7	S.W.	28.7
25	...	...	...	...	...	...	...	...	...	14	354.6	10	232.5	...	...	...	...	24	587.1	S.	* 35.3
26	...	3	38.2	8	59.1	5	56.4	5	41.9	1	21.5	2	54.1	...	...	...	...	24	271.2	S.W.	30.2
27	...	10	60.3	14	101.3	...	...	...	...	...	...	...	...	...	...	...	...	24	161.6	N.E.	10.9
28	...	24	175.3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	175.3	N.	10.9
29	...	9	56.7	15	154.3	...	...	...	...	...	...	...	...	...	...	...	...	24	211.0	N.E.	13.8
30	...	16	166.7	8	74.4	...	...	...	...	...	...	...	...	...	...	...	...	24	241.1	N.E.	14.4
計合 Sums.	12	190	1471.7	175	1262.8	83	471.3	74	364.3	115	1755.3	44	925.5	2	5.1	25	260.5	720	6516.5	..	...
極强 Max.	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	S.	35.3

濕氣百分數

HUMIDITY.

(Saturation = 100)

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
1	85	80	74	62	67	69	65	58
2	58	67	50	44	45	46	78	85
3	92	90	66	66	69	73	76	89
4	92	91	75	48	53	70	67	66
5	70	79	73	68	93	94	94	87
6	91	75	52	44	38	66	63	67
7	53	53	43	46	39	53	62	65
8	77	78	85	88	77	91	99	99
9	92	91	51	43	39	42	52	58
10	78	78	58	54	62	72	67	65
11	74	82	71	65	46	77	83	84
12	82	81	77	86	95	99	94	97
13	98	98	83	61	53	61	72	78
14	76	81	74	73	69	78	88	93
15	96	98	70	49	42	61	74	82
16	96	95	96	83	63	68	81	99
17	97	99	98	87	68	75	82	83
18	84	94	86	78	68	88	94	95
19	99	95	82	68	62	72	86	86
20	91	90	73	70	59	75	93	95
21	94	94	86	74	68	71	80	80
22	81	80	67	64	54	66	86	89
23	92	97	72	64	57	70	79	90
24	91	91	71	67	63	69	66	77
25	76	74	56	56	62	72	77	89
26	83	92	84	64	60	64	62	73
27	72	75	59	54	50	56	65	64
28	89	95	98	97	98	96	99	94
29	88	87	80	72	63	71	75	81
30	77	75	72	72	69	88	96	96
平均 Means.	84	85	73	66	62	72	79	82

蒸發力
ELASTIC FORCE OF VAPOUR.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.334	0.296	0.287	0.336	0.381	0.313	0.273	0.226
2	0.199	0.203	0.229	0.255	0.292	0.194	0.256	0.251
3	0.227	0.214	0.217	0.290	0.357	0.356	0.338	0.312
4	0.281	0.253	0.371	0.360	0.377	0.379	0.358	0.346
5	0.364	0.384	0.397	0.388	0.500	0.541	0.360	0.418
6	0.430	0.364	0.293	0.305	0.260	0.329	0.271	0.260
7	0.190	0.166	0.196	0.233	0.200	0.238	0.269	0.279
8	0.301	0.290	0.309	0.355	0.348	0.373	0.397	0.343
9	0.317	0.285	0.237	0.274	0.262	0.229	0.210	0.208
10	0.225	0.232	0.294	0.360	0.386	0.396	0.346	0.362
11	0.403	0.451	0.537	0.568	0.496	0.343	0.316	0.304
12	0.288	0.286	0.279	0.305	0.321	0.297	0.289	0.294
13	0.304	0.316	0.296	0.264	0.235	0.247	0.264	0.263
14	0.251	0.260	0.268	0.285	0.277	0.319	0.307	0.293
15	0.276	0.253	0.308	0.305	0.273	0.316	0.333	0.356
16	0.339	0.325	0.365	0.410	0.371	0.361	0.377	0.427
17	0.428	0.400	0.424	0.459	0.434	0.453	0.407	0.397
18	0.367	0.404	0.389	0.353	0.319	0.342	0.348	0.343
19	0.330	0.321	0.319	0.289	0.311	0.305	0.335	0.313
20	0.315	0.301	0.309	0.360	0.351	0.358	0.334	0.313
21	0.302	0.309	0.313	0.315	0.316	0.304	0.307	0.302
22	0.302	0.275	0.289	0.324	0.298	0.294	0.296	0.285
23	0.275	0.280	0.315	0.335	0.342	0.365	0.377	0.410
24	0.346	0.355	0.394	0.472	0.449	0.421	0.381	0.430
25	0.415	0.421	0.381	0.433	0.419	0.444	0.477	0.531
26	0.511	0.365	0.338	0.344	0.360	0.324	0.267	0.283
27	0.275	0.280	0.294	0.294	0.281	0.261	0.270	0.267
28	0.303	0.329	0.344	0.342	0.353	0.345	0.345	0.322
29	0.302	0.302	0.309	0.315	0.286	0.284	0.267	0.274
30	0 242	0.230	0.243	0.284	0.325	0.364	0.367	0.355
平均 Means.	0.315	0.305	0.318	0.340	0.339	0.337	0.331	0.326

露點温度

DEW POINT.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	47.9	44.7	43.9	48.1	51.5	46.2	42.6	37.7
2	34.5	34.9	38.0	40.8	44.3	33.8	40.9	40.4
3	37.8	36.2	36.6	44.2	49.7	49.6	48.2	46.1
4	43.4	40.6	50.8	49.9	51.2	51.4	49.8	48.9
5	50.2	51.9	52.6	52.0	59.0	61.2	62.2	54.0
6	54.8	50.2	44.4	45.5	41.3	47.5	42.4	41.3
7	33.3	29.9	34.0	38.5	34.6	39.1	42.2	43.2
8	45.1	44.2	45.9	49.5	49.0	50.9	52.6	48.6
9	46.5	43.7	38.9	42.7	41.5	38.0	35.8	35.5
10	37.5	38.4	44.5	49.9	51.9	52.5	48.9	50.1
11	53.0	56.1	61.0	62.6	58.8	48.6	46.4	45.4
12	44.0	43.8	43.2	45.5	46.8	44.8	44.1	44.5
13	45.4	46.4	44.7	41.7	38.7	40.0	41.7	41.6
14	40.4	41.3	42.1	43.7	43.0	46.7	45.7	44.4
15	42.9	40.6	45.8	45.5	42.6	46.4	47.8	49.6
16	48.3	47.2	50.3	53.5	50.8	50.0	51.2	54.6
17	54.7	52.8	54.7	56.6	55.1	56.2	53.3	52.6
18	50.5	53.1	52.1	49.4	46.7	48.5	49.0	48.6
19	47.6	46.8	46.7	44.1	46.0	45.5	48.0	46.2
20	46.3	45.1	45.9	49.9	49.2	49.8	47.9	46.2
21	45.2	45.9	46.2	46.3	46.4	45.4	45.7	45.2
22	45.2	42.8	44.1	47.1	44.9	44.5	44.7	43.7
23	42.8	43.3	46.3	48.0	48.5	50.3	51.2	53.5
24	48.9	49.5	52.4	57.4	56.0	54.2	51.5	54.8
25	53.8	54.2	51.5	55.0	54.1	55.7	57.7	60.7
26	59.6	50.3	48.2	48.7	49.9	47.1	42 0	43.5
27	42.8	43.3	44.5	44.5	43.4	41.4	42.3	42.0
28	45.3	47.5	48.7	48.5	49.4	48.8	48.8	46.9
29	45.2	45.2	45.9	46.3	43.8	43.6	42.0	42.7
30	39.5	38.1	39.6	43.6	47.2	50.2	50.5	49.5
平均 Means.	45.7	44.9	46.1	48.0	47.8	47.6	47.2	46.7

明治十九年四月

APRIL 1886.

日次 Date.	寒暑鍼 THERMOMETER.							
	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	52.3	50.8	52.0	61.2	62.8	56.3	54.1	52.0
2	48.9	45.2	56.7	63.5	66.0	54.0	47.8	44.7
3	39.9	39.0	47.5	55.5	60.0	58.5	55.8	49.2
4	45.5	43.0	59.3	70.5	69.0	61.8	61.0	60.2
5	60.0	58.2	61.0	62.9	60.9	63.0	64.0	58.2
6	57.5	58.4	62.0	68.7	68.0	58.8	55.0	52.0
7	50.0	46.0	56.5	59.2	59.5	56.0	55.0	55.0
8	52.2	48.8	50.0	53.3	56.0	53.3	53.0	49.0
9	48.8	46.2	57.3	65.0	67.5	61.8	53.2	49.9
10	44.0	44.9	59.5	67.0	65.5	61.8	59.8	62.0
11	61.7	61.7	71.0	75.5	81.8	55.6	51.3	50.1
12	49.7	49.0	50.2	49.6	48.1	45.2	45.8	45.4
13	46.0	47.0	49.6	54.9	55.7	53.0	50.5	48.3
14	47.8	47.0	50.3	52.2	53.0	53.3	49.0	46.5
15	44.0	41.0	55.5	65.0	66.1	60.0	56.0	54.7
16	49.5	48.7	51.7	58.6	63.8	60.8	57.0	55.0
17	55.5	53.2	55.3	60.5	66.0	64.2	59.0	57.7
18	55.0	54.9	56.0	56.2	57.3	52.1	50.9	50.0
19	48.0	48.1	52.3	54.4	58.8	54.7	52.0	50.3
20	48.8	47.8	54.2	59.7	63.8	58.0	50.0	47.7
21	47.1	47.6	50.2	54.7	57.0	54.8	52.0	51.3
22	50.9	49.0	54.9	59.3	61.8	55.8	49.8	46.6
23	45.0	44.2	55.5	60.2	64.0	60.3	57.7	56.3
24	51.3	52.1	62.3	69.0	69.5	64.8	63.2	62.2
25	61.1	62.5	67.8	71.8	67.5	65.2	65.0	64.0
26	64.8	52.5	53.0	60.7	64.0	59.3	54.8	52.0
27	51.4	51.0	58.7	61.3	62.0	57.2	53.8	53.7
28	48.5	49.0	49.3	49.3	50.0	50.0	49.2	48.8
29	48.6	48.8	52.0	55.5	56.2	53.0	49.7	48.0
30	46.5	45.8	48.0	52.5	57.2	53.8	50.7	50.5
平均 Means.	50.7	49.4	55.3	60.3	62.0	57.2	54.2	52.4

改正風雨鍼

BAROMETER.

Reduced to 32° F. and sea level.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	30.005	29.965	29.988	29.912	29.839	29.868	29.907	29.932
2	29.946	30.006	30.067	30.059	30.027	30.129	30.217	30.254
3	30.230	30.266	30.273	30.242	30.181	30.154	30.184	30.191
4	30.150	30.143	30.137	30.087	30.018	30.010	30.006	29.992
5	29.953	29.942	29.914	29.878	29.784	29.716	29.657	29.636
6	29.623	29.672	29.757	29.788	29.832	29.933	30.055	30.109
7	30.135	30.209	30.244	30.208	30.180	30.204	30.254	30.263
8	30.229	30.232	30.229	30.175	30.110	30.010	29.939	29.901
9	29.839	29.920	30.938	29.972	29.969	30.022	30.104	30.118
10	30.110	30.123	29.114	30.037	29.967	29.910	29.872	29.811
11	29.743	29.725	29.664	29.590	29.555	29.801	29.961	30.014
12	30.032	30.057	30.064	29.998	29.967	29.892	29.839	29.802
13	29.772	29.734	29.871	29.858	29.844	29.864	29.898	29.914
14	29.906	29.916	29.944	29.930	29.903	29.905	29.949	29.974
15	29.960	30.063	30.086	30.092	30.072	30.115	30.178	30.163
16	30.157	30.171	30.201	30.167	30.061	30.013	29.981	29.870
17	29.748	29.717	29.695	29.616	29.612	29.655	29.768	29.768
18	29.795	29.819	29.863	29.859	29.879	29.877	29.887	29.886
19	29.852	29.858	29.870	29.846	29.789	29.794	29.841	29.840
20	29.836	29.855	29.892	29.894	29.887	29.928	30.018	30.066
21	30.040	30.098	30.126	30.114	30.069	30.086	30.130	30.134
22	30.128	30.167	30.198	30.208	30.177	30.201	30.288	30.294
23	30.282	30.310	30.350	30.329	30.284	30.259	30.274	30.245
24	30.247	30.244	30.232	30.178	30.091	30.076	30.090	30.099
25	30.049	30.060	30.038	29.983	29.945	29.941	29.911	29.844
26	29.836	29.945	30.047	30.051	30.039	30.070	30.164	30.180
27	30.167	30.244	30.263	30.238	30.207	30.231	30.248	30.203
28	30.190	30.183	30.214	30.211	30.183	30.183	30.197	30.202
29	30.188	30.209	30.236	30.236	30.226	30.242	30.234	30.250
30	30.221	30.252	30.239	30.199	30.129	30.117	30.107	30.013
平均 Means.	30.012	30.037	30.058	30.032	29.994	30.007	30.039	30.032

氣象觀測之月報

東京海軍觀象臺

MONTHLY REPORT

OF THE

METEOROLOGICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	改正風雨鍼 Barometer. Reduced to 32 F. & sea level. 平均 Mean.	極高 Max.	極低 Min.	寒暑鍼 Thermometer. 平均 Mean.	極高 Max.	極低 Min.	露點温度 平均 Mean Temp. of Dew point.	蒸發力 平均 Mean elastic force of Vapour.	濕氣百分數 平均 Mean Humidity (Sat. = 100).	無氣中日温度 極高 Vacuum solar radiation Max.	日温度 極高 Solar radiation Max.	地温度 極低 Terrestrial radiation Min.
	in	in	in	°	°	°	°	in		°	°	°
1	29.927	30.005	29.839	55.2	64.8	48.5	45.3	0.306	70	129.0	88.8	32.5
2	30.088	30.254	29.946	53.4	67.9	43.8	38.5	0 235	59	133.3	91.5	30.0
3	30.215	30.273	30.154	50.7	62.0	* 38.0	43.6	0.289	78	115.3	79.8	35.0
4	30.068	30.152	29.992	58.8	70.6	42.7	48.3	0.341	70	135.2	92.1	* 29.8
5	29.810	29.953	29.636	61.0	64.5	57.3	55.4	0.444	82	92.3	71.4	48.4
6	29.846	30.109	29.623	60.1	70.7	51.5	45.9	0.314	62	133.5	89.5	44 5
7	30.212	30.263	30.135	54.7	62.6	44.1	36.9	0.221	52	134.9	89.2	31.8
8	30.103	30.232	29.901	52.0	57.3	47.8	48.2	0.340	87	107.7	75.5	40.4
9	29.985	30.118	29.839	56.3	68.3	45.0	40.3	0.253	59	131.8	89.5	34.0
10	29.993	30.123	29.811	58.1	67.7	42.5	46.7	0.325	67	* 149.1	* 102.6	31.2
11	29.757	30.014	* 29.555	63.6	* 82.7	50.0	54.0	0.427	73	141.2	99.0	41.9
12	29.956	30.064	29.802	47.9	51.5	44.5	44.6	0.295	89	74.5	60.0	38.0
13	29.844	29.914	29.734	50.6	58.2	44.3	42.5	0.274	76	131.8	86.0	38.0
14	29.928	29.974	29.903	49.9	53.8	45.8	43.4	0 283	79	76.8	73.8	36.7
15	30.091	30.178	29.960	55.3	66.8	40.2	45.2	0.303	72	135.1	92.0	30.0
16	30.078	30.201	29.870	55.6	64.5	47.4	50.7	0.372	85	112.0	79.1	40.8
17	29.693	29.768	29.600	58.9	66.4	52 7	54.5	0.425	86	129.6	88.9	45.1
18	29.858	29.887	29.795	54.1	57.8	49.0	49.7	0 358	86	81.0	63.5	42.0
19	29.836	29.870	29.789	52.3	59.5	47.3	46.4	0.315	81	138.0	88.8	40.5
20	29.922	30.066	29.836	53.8	65.0	47.0	47.5	0.330	81	133.0	88.2	39.3
21	30.100	30.134	30.040	51.8	57.2	46.1	45.8	0.309	81	100.5	74.5	39.5
22	30.208	30.294	30.128	53.5	64.0	46.0	44.6	0.295	73	134.7	86.2	34.8
23	30.292	* 30.350	30.245	55.4	65.0	42.9	48.0	0.337	78	133.0	88.2	31.4
24	30.157	30.247	30.076	61.8	70.1	49.5	53.1	0.406	74	137.5	96.8	37.5
25	29.971	30.060	29.844	65.6	71.8	60.2	55.3	0.440	70	140.8	50.2	50.2
26	30.042	30.180	29.836	57.6	66.7	51.7	48.7	0.349	73	135.7	91.5	43.1
27	30.225	30.263	30.167	56.1	64.5	50.0	43.0	0.278	62	122.0	82.2	41.5
28	30.195	30.214	30.183	49.3	54.5	47.6	48.0	0.335	96	59.3	55.9	39.8
29	30.228	30.250	30.188	51.5	57.0	47.0	44.3	0.292	77	94.8	69.8	39.0
30	30.160	30.252	30.013	50.6	57.9	44.8	44.8	0.301	81	84.5	66.2	42.0
平均 Means.	30.026	...	...	55.2	...	...	46.8	0.326	75	...	...	...
至極 Max. & Min.	...	30.350	29.555	...	82.7	38.0	...	...	...	149.1	102.6	29.8

凡例

一風雨鍼ハ氷點及海面ニ改正ス

一寒暑鍼ハ都テ華氏ノ度表ヲ用フ

一露點、濕氣、蒸發力、ハ燥濕兩球寒暑鍼ノ實驗ヨリ算出ス

一風ノ方向及速力ハ自記驗風儀ヲ以テ之ヲ測ル而シテ方向ハ八點ニ分チ速力ハ英里ヲ以テ算ス

一天候ノ表中降雨、降雪、霰、霧、雲ノ種類ハ悉皆觀望ノ時數ヲ掲ゲ陰部ハ一日間全陰ヲ十トシ他ハ之ニ比例ス

一又雨雪ノ水積ハ毎午前九時ニ實驗シ英寸ヲ以テ之ヲ示ス

一磁氣偏差ハ連日午前七時傾差及地平磁針力ハ連月兩回之ヲ觀測ス

一此觀測ノ用器ハ偏差儀傾差儀及「ユーニフアイラ」磁氣儀ナリ

一偏針角ノ觀測ニ於テ兩磁氣中心ノ相距ハ一、三英尺トス

一搖振時ノ觀測ニ用フル磁氣ノ尺度一割分ノ價ハ二分、三七ナリ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Glayser's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer.

The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection, $r = 1.3$ feet.

The angular value of one scale division of the vibration magnet $= 2'.37$.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黒 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濃霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險惡ノ模樣 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew).
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
風 *w* (Wind). The force of wind is expressed by w_1, w_2, &c, as $w_1 =$ slight, $w_6 =$ strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

氣象及磁氣月報

日本東京海軍觀象臺

明治十九年四月

MONTHLY REPORT

OF THE

METEOROLOGICAL AND MAGNETICAL OBSERVATIONS,

DURING

APRIL 1886,

AT THE

NAVAL OBSERVATORY,

TOKIO.